

Abstract:

The invention relates to a cooling element, particularly for use in walls of furnaces that are
5 subjected to high levels of thermal stress, and to a method for producing a cooling element. The cooling element is comprised of cast copper or of a low-alloyed copper alloy and is provided with coolant channels, which consist of tubes cast inside the copper or the
10 copper alloy and which are placed inside the cooling element. In order to create a cooling element with an improved material bond on the contact surfaces between the cooling tube and the metal cast around it and thus with an increased heat transfer, the invention provides
15 that the tubes of the coolant channels are provided with an electrolytic coating on the exterior thereof. The use of copper tubes has been shown to be particularly advantageous, and the coating of the tube exteriors thereof ensues in an electroplating bath.

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